

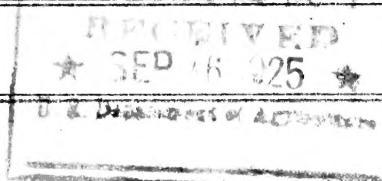
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MONTHLY LETTER OF THE BUREAU OF ENTOMOLOGY  
UNITED STATES DEPARTMENT OF AGRICULTURE

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DR HOWARD RETURNS TO WASHINGTON

Dr. Howard sailed for Europe on May 30, but during a storm at sea received an injury to his back which delayed him for three weeks in Scotland. He missed the International Agriculture Congress at Warsaw and the meeting of the Imperial Bureau of Entomology at London. However, he was enabled to continue his trip, and visited correspondents and Bureau men in different parts of England and France, and attended the Third International Congress for Entomology at Zurich. He returned to Washington the third week in August.

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GIPSY MOTH AND BROWN-TAIL MOTH INVESTIGATIONS  
A. F. Burgess, Senior Entomologist, in Charge

On August 22 about thirty visitors, attending a shade-tree conference in and about Boston, stopped at the gipsy moth laboratory at Melrose Highlands, where an exhibit had been prepared for them.

F. C. Craighead, of Forest Insect Investigations, called at the office and laboratory on August 24.

S. M. Dohanian returned from Europe on the S. S. America on August 15, after spending most of the last six months in Spain and Portugal, investigating the biological control of the gipsy moth, *Lymantria dispar*. He has made several large shipments to Melrose Highlands, Mass., of gipsy moth larvae and pupae, and several lots of gipsy moth parasites and predators. As a result of these shipments several parasite colonizations have been made. He reports heavy gipsy moth infestations in parts of Spain and Portugal. The parasitism of the gipsy moth in these two countries was not so great as in parts of central Europe. He received splendid cooperation from the official entomologists in both Spain and Portugal, finding it a great help to the work. After the gipsy moth season was over in those countries he consulted with entomologists of the United States Bureau of Entomology at Hyeres, France, at Rome, Florence, and Fano, Italy, and at the meeting of the third International Congress of Entomologists at Zurich, Switzerland. In the southern part of France the gipsy moth infestation is very light, as it has been for several years. In southern Italy a heavy gipsy moth infestation is reported near Potenza, in the Province of Basilicata, and light infestations were located at Genoa and at Atessa, near Venice.

TRUCK-CROP INSECT INVESTIGATIONS

J. E. Graf, Entomologist, in Charge

In company with H. J. Quayle, H. S. Smith and P. H. Timberlake, W. W. Yothers visited the Alhambra Laboratory on August 19. Mr. Yothers is making a study of citrus pests and their control in California.

David Dunavan, Field Assistant at Toppenish, Wash., has handed in his resignation, effective August 15, to enter the County Horticultural Inspection Service of the State of Washington, with headquarters at Yakima.

Harold L. Weatherby's appointment as field assistant at the Birmingham, Ala., station has been extended from September 1 to September 12, to permit him to finish scouting work in Tennessee, Kentucky, and Indiana.

Walter Carter, formerly of Toppenish station, has been permanently transferred to Twin Falls, Idaho, where he is now engaged on sugar-beet leafhopper investigations in the Ochocho Irrigation Project of Idaho. The Toppenish laboratory will be maintained as a substation of the station at Twin Falls, with E. W. Davis in charge, under Mr. Carter's direction. Mr. Davis reported for duty at Toppenish on August 1.

Frank H. Shirck has been appointed Junior Entomologist at the Toppenish, Wash., station, and reported for duty August 6.

In August numerous reports were received of damage by the lima bean pod-borer to lima beans in Ventura County, Calif., and R. E. Campbell visited Ventura County and informed himself as to the situation. Steps are now under way to appoint Stanley E. Flanders, entomologist with the Walnut Growers' Association of Saticoy, as entomologist to cooperate in an investigation of this insect.

N. F. Howard recently visited points in New York, Pennsylvania and Ohio to make an inspection of relative injury caused by the Mexican bean beetle. As a result, the main Mexican bean beetle laboratory will probably be moved in the coming winter from Birmingham, Ala., to some point in Ohio or West Virginia.

In August B. L. Boyden visited Gainesville and Sanford, Fla., to make preliminary plans for an investigation of the celery leaf-tyer, in cooperation with the officials of the State Plant Board.

J. R. Douglass recently visited Douglas, Ariz., for the purpose of scouting for the squash lady beetle in the Rio Grande Valley. This insect recently invaded the valley, probably from old Mexico, and was spreading northward in the vicinity of Douglas. Mr. Douglass was not able to find any specimens of this insect on the American side of the boundary, and as yet is unable to explain its disappearance.

O. T. Deen, who has been working under Mr. High's direction on the Australian tomato weevil, left the service on August 3, at the termination of his temporary appointment.

J. R. Douglass, in charge of the Estancia, N. M., laboratory, reports that Dr. A. H. Wright, of the Zoology Department, Cornell University, visited the laboratory on August 29.

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#### TAXONOMIC INVESTIGATIONS

S. A. Rohwer, Entomologist, in Charge

Dr. A. G. Boving returned August 15 from his trip to Europe, where he spent considerable time studying the collections of coleopterous larvae in Copenhagen, Stockholm, and the British Museum. He met many of his old colleagues and discussed various phases of his work with them, and arranged for large exchanges of coleopterous adults and larvae.

H. G. Barber has been spending about two weeks in the Section of Insects, working on a catalogue of the Lygaeidae of the world, which he has undertaken in cooperation with other hemipterists who are preparing a catalogue of the Hemiptera of the world.

Letters have been received from Raymond Shannon, telling of his travels in Germany and Czecho-Slovakia. While in Germany he had an opportunity to meet the well known dipterist Theo. Becker, and to obtain some very interesting information concerning boyhood friends of Dr. E. A. Schwarz. Mr. Shannon then went to London and spent some time studying mosquitoes in the British Museum. He expects to sail for home in the latter part of August.

George P. Englehardt, of the Brooklyn Museum, recently spent one day in the Division of Insects, studying certain moths and conferring with the lepidopterists.

C. T. Greene is undertaking studies of the larvae and pupae of the dipterous family Agromyzidae, and will be very glad to receive specimens of the immature stages of any member of this family. It is especially desired that these specimens be associated with adults, so that it will be possible to verify the identifications. Species of this family are usually leaf-miners, and some of them are of considerable importance. In the last Monthly Letter it was stated that Mr. Greene would like to obtain immature specimens of the family Anthomyiidae; it is hoped that representatives of both these families may be obtained.

### JAPANESE BEETLE INVESTIGATIONS

L. B. Smith, Entomologist, in Charge

On August 7 orchardists and others from Burlington, Gloucester, and Camden Counties, N. J., held a meeting and tour for the purpose of looking over the investigational work at the Japanese Beetle Laboratory at Riverton and observing various methods of control in the field. About 100 acres of demonstration orchards were visited. The orchards consisted of peaches, apples, cherries and grapes. The growers expressed themselves as well pleased with the results obtained; almost perfect control was secured by following the recommendations issued by the laboratory on early ripening varieties of apples with one application of spray on June 25. During the trip a demonstration was held in one of the orchards, using the new attractive agent geraniol to draw the beetles into a limited area, where they can be killed by a contact spray. The contact spray, consisting of oleroresin of pyrethrum and soap, which has been developed at the laboratory during the past season, was also demonstrated with remarkably good results. The trip ended at the laboratory, where short talks were given by Dr. T. J. Headlee, State Entomologist of New Jersey, L. B. Smith, and J. L. King.

Dr. A. L. Quaintance, Acting Chief of the Bureau of Entomology, Dr. T. J. Headlee, State Entomologist of New Jersey, and C. H. Hadley, Director of the State Bureau of Plant Industry, Harrisburg, Pa., visited the laboratory at Riverton on August 12 to discuss matters of policy relative to the Japanese Beetle Project.

On August 20 Philadelphia daily papers carried accounts of a number of alleged cases of arsenic poisoning in the vicinity of Camden, N. J., as a result of eating fruit sprayed with arsenicals. All of the alleged cases have been carefully investigated and no instances have been found in which there is any positive evidence that there was either illness or death occurring from this cause.

Several members of the laboratory staff attended the annual meeting of the National Cranberry Growers' Association, held at Budd's Cranberry Bog, near Pemberton, N. J., August 26. In conjunction with the meeting a demonstration of airplane dusting of cranberries was given by the Morse Agricultural Service, New York City.

Dr. F. Materna, New York City, visited the Japanese Beetle Laboratory in August.

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### FOREST INSECT INVESTIGATIONS

F. C. Craighead, Entomologist, In Charge

Dr. F. C. Craighead arrived in Washington on August 15 after an extended trip into the South and West. He left Washington again on August 17 to examine conditions in New England, where some cooperative work on the white pine weevil is now being carried on. It is hoped that this work may be expanded.

SOUTHERN FIELD-CROP INSECT INVESTIGATIONS

T. E. Holloway, Associate Entomologist, In Charge

F. S. Chamberlin, in charge of the tobacco insect laboratory at Quincy, Fla., was recently at the Washington office. Mr. Chamberlin has completed an extensive inspection of tobacco plantings in the Southeastern States.

J. W. Ingram, stationed at Crowley, La., is on a trip to California to investigate rice insects in that State.

Dr. W. D. Hunter and J. L. Webb recently visited the Tallulah, La., laboratory.

W. V. King and G. H. Bradley have been investigating the mosquito situation on the Mississippi coast.

C. F. Stahl, formerly of the Bureau and now studying sugarcane insects in Cuba for the Tropical Plant Research Foundation, was a recent visitor at the Sugarcane Insect Laboratory.

J. L. Webb is taking a field trip to Texas and Arizona. During his absence T. E. Holloway is acting in charge of the Washington office.

O. G. Babcock made an address on August 12 before a group of stock raisers at the "ranchman's roundup" held by the Texas Experiment Station at its substation No. 14, near Sonora, Tex. About one thousand ranchmen were in attendance, and considerable interest was shown in Mr. Babcock's discussion of the control of screwworms and goat lice under range conditions.

Early in August Dr. R. C. Roark, of the Bureau of Chemistry, and Messrs. E. W. Laake and H. M. Brundrett discontinued their work on the screw worm, on ranches near Uvalde, Tex., and returned to the Dallas laboratory. After a brief conference at Dallas, Doctor Roark returned to Washington.

In August D. C. Parman, of the Uvalde, Tex., laboratory, submitted a manuscript on "Internal administration of chemicals for the control of external parasites of the fowl," for publication as a Bureau bulletin. Much interest is being shown by poultry raisers of the country in this question, since a great number of proprietary remedies of this nature are being sold for the purpose of controlling mites, lice, ticks and other parasites of fowls.

### CEREAL AND FORAGE INSECT INVESTIGATIONS

W. H. Larrimer, Entomologist, in Charge

Herbert D. Smith, of the Carlisle laboratory, visited Washington on August 21. Mr. Smith was en route to Carlisle after conducting the usual Hessian fly survey in southern Maryland.

L. H. Worthley visited the corn borer area in southern Ontario, Michigan, and northern Ohio, during the week of August 17, in company with State and Dominion officials.

D. J. Caffrey left Arlington on August 16 for an inspection tour through southern Ontario and the entire western area of corn borer infestation, to make percentage counts and to consult with State officials regarding cooperative work. He expects to return to Arlington about September 8 or 9, but will visit the Ohio region for an extended stay about September 15.

Dr. W. H. Larrimer has been appointed chief of this section, following the resignation of Prof. Geo. A. Dean.

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### BEE CULTURE INVESTIGATIONS

James I. Hambleton, Apiculturist, in Charge

On August 19 Miss Winifred S. Hull resigned her temporary appointment as Assistant Scientific Aid in Apiculture.

W. J. Nolan was on the program of a beekeepers' meeting held at Blacksburg, Va., on August 12.

Recent visitors at the Bee Culture Laboratory were: V. M. Argo, who is doing entomological work for the State of Maryland, Dr. Robert Griggs, Professor of Botany at George Washington University, and T. M. N. Lewis, of the G. B. Lewis Company, manufacturers of bee supplies.

Dr. A. P. Sturtevant participated in the meetings held in connection with the bee-disease inspection tour held by Wisconsin beekeepers from August 10 to 15. The tour was highly successful, as many as 35 autos being in line at one time, and the attendance at some of the meetings ranged from 100 to 150 persons. The route included Janesville, Fort Atkinson, Watertown, Milwaukee, Fond du Lac, Sheboygan Falls, and other places.

#### FRUIT INSECT INVESTIGATIONS

A. L. Quaintance, Associate Chief of Bureau, in Charge

E. T. Evans, who has been assisting in the oriental peach moth investigations at Riverton, N. J., has resigned from the service to return to college.

O. W. Carothers, who has been assisting in spraying operations in connection with pecan insect investigations at Brownwood, Tex., has resigned from the service, to teach school at Brownwood.

Miss Leola J. Kruger, who has been assisting in investigations of Coccidae, has resigned from the service, and Miss Grace E. Glance, a graduate of the Pennsylvania State College, has been appointed Junior Entomologist to take her place.

Oliver I. Snapp, in charge of the Fort Valley, Ga., laboratory, delivered an address on "Post harvest control of the curculio" at the fiftieth annual meeting of the Georgia State Horticultural Society in Athens, Ga., on August 24.

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#### STORED-PRODUCT INSECT INVESTIGATIONS

E. A. Back, Entomologist, in Charge

The Secretary of Agriculture has been advised by D. K. Grady, Secretary of the Dried Fruit Association of California, that this Association has appropriated \$1,000 to aid the Bureau of Entomology in its investigation of dried-fruit insects. This action duplicates that taken last year, and is an excellent endorsement of the work being conducted by J. C. Hamlin, who is in field charge of the investigations. Mr. Grady writes: "The Association has been very much interested in the investigation as it has developed to date, and is hopeful that the findings during the coming year will prove of material assistance to us in solving our infestation problem."

On July 31 W. D. Reed, of the Dried Fruit Laboratory, returned to Fresno after having surveyed the needs of a large terminal company of the Bay district in connection with the sterilization of stored products. On his return trip Mr. Reed conferred with officials of the Prune and Apricot Growers' Association at San Jose.

Dr. R. T. Cotton has been on leave of absence since August 15, with headquarters at Ithaca, N. Y., making inspections of large wool warehouses and carpet and rug factories at Amsterdam, N. Y., for the purpose of giving advice on the protection of these products from clothes moths.

Dr. E. A. Back returned to Washington on August 17, after examining, in Boston, Mass., large and valuable stocks of mohair and alpaca wools, in which clothes moths were multiplying in such numbers as to cause concern.

On August 28 R. C. Roark and W. E. Kirby, of the Bureau of Chemistry, and Dr. Back and E. A. Vaughan, of the Bureau of Entomology, visited the Western Maryland Elevator Company, in Baltimore, to be present at a demonstration of the fire hazards involved in the use of certain grain fumigants.

Perez Simmons has recently returned from a trip to New England, where he was on vacation leave.

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#### LIBRARY

Mabel Colcord, Librarian

#### NEW BOOKS

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A remarkable partnership between the Spanish bayonet and the yucca moth as shown in original photographs. Natural History, vol. 25, No. 3, pp. 276-281, May-June, 1925.

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